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SHAFT SEALING ELEMENT

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ABSTRACT

PURPOSE: To generate an effect of screw pump and improve the sealing quality in a shaft sealing element provided with an annular lip of almost V-shaped section as the shaft sealing part, by providing radial ruggedness on the surface at the side opposite to sealing fluid for a shaft sealing face of the lip.

CONSTITUTION: A shaft sealing element 3 equipped in a casing 2 is constituted by a reinforcing ring 4, annular lip 5 and a spring ring 6. The inner circumference of the lip 5 forms a section almost in V-shape, and its inner circumferential edge is formed as a shaft sealing face 7 contacted to the periphery of a shaft 1 and contact pressure of said shaft sealing face 7 is given by the spring 6 engaged to the periphery of the lip 5. In the inner circumference of the lip 5 for said shaft sealing element 3, many radially rugged parts 8 are provided in the side opposite to sealing fluid, that is, the side of outside air A of the shaft sealing face 7. Said rugged parts 8 are curved as shown in the drawing due to the friction contact with the shaft 1 when the shaft 1 is rotated, and this causes the display of an effect of screw pump, permitting the prevention of a leak of sealing fluid L to the side of outside air A

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